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Notice of Allowability	Application No.	Applicant(s)	
	10/611,323	ESCH, HELENE	
	Examiner	Art Unit	
Dang T Nguyen		2824	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTO-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. This communication is responsive to 1 July 2003.
2. The allowed claim(s) is/are 8-26.
3. The drawings filed on 01 July 2003 are accepted by the Examiner.
4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some* c) None of the:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date _____.
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. Notice of References Cited (PTO-892)
2. Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 1 July 2003
4. Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. Notice of Informal Patent Application (PTO-152)
6. Interview Summary (PTO-413),
Paper No./Mail Date _____.
7. Examiner's Amendment/Comment
8. Examiner's Statement of Reasons for Allowance
9. Other Search history.

RICHARD ELMS
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800

DETAILED ACTION

1. This office action is in response to the following communications: The Application and the Information Disclosure Statement filed on July 1, 2003.
2. Claims 1 – 7 were cancelled, New claims 8 - 26 are pending on this application. Claims 8, 15, and 22 are independent claims.

Preliminary Amendment

3. Acknowledgment is made of applicant's Preliminary Amendment, filed April 1, 2003. The changes and remarks under claim amendments: claims 1 – 7 were cancelled and new claims 8 – 26 are added in this case. The claims amendments were considered.

Allowable Subject Matter

4. Claims 8 - 26 are allowed.
5. The following is an examiner's statement of reasons for allowance:

With respect to claim 8, 15, and 22 in addition to other elements in the respective claim, the prior art does not teach a storage device comprising: the registers are connected in pairs on each output port, each pair of registers including two registers with address words that only differ in a value of the specific bit, and for each pair of registers and for each output port, the connecting means comprise a pair of first switching means controlled in a complementary manner by the specific bit in the address word of one of the two registers, and a second switching means connected to the corresponding output port and

controlled from the remaining bits of the address words of the two registers, the pair of first switching means being connected between the corresponding two registers and between the corresponding second switching means.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Toda et al. (U.S. Patent No. 5,708,618) discloses relating to a multi port field memory for serially transferring data through a plurality of input and output ports.

Sasaki et al. (U.S. Patent No. 5,245,575) discloses providing a register circuit in which the contents of one register is copied into another register within one clock period.

Harrand (U.S. Patent No. 6,675,256 B1) discloses a storage element includes a first register for storing the column address and, if present, the data to be written of the current request, and a second register, receiving as an input the output of said first register and providing as an output control signals of the cash registers.

Fujino et al. (U.S. Patent No. 6,151,244) discloses a semiconductor memory device having the folded bit line arrangement suitable for higher density and higher integration allowing an easy layout of sense amplifiers.

Kay (Patent No. 4,390,970) discloses a storage register may also be used as a demultiplexer to separate two or more sets of data that were received by the register over a single data line.

Contact Information

7. Any inquiry concerning this communication from the examiner should be directed to Dang Nguyen, who can be reached by telephone at (703) 305-1673. Normal contact times are M-F, 8:00 AM - 4:30 PM.

Upon an unsuccessful attempt to contact the examiner, the examiner's supervisor, Richard Elms, may be reached at (571) 272-1869.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist, whose telephone number is (703) 305-3900. The faxed phone number for organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the Status of an application may be obtained from the patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Dang Nguyen 7/21/2004